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ABSTRACT

This book is intended for both preservice and inservice teachers who wish to experience some of the fundamental ideas expressed in the documents published by the National Council of Teachers of Mathematics (NCTM) that are commonly referred to as the Standards. The text encourages the reader to seek connections between pedagogy and content in a number of ways. Pedagogical ideas are part of the substance of each piece. Often these ideas are exemplified in various classroom vignettes or in a variety of interview settings. Readers are also encouraged to imagine the implications of their own experiences as learners for teaching. Consequently, both the content and the format of the text differ significantly from most texts that address the teaching of mathematics at the secondary level. Chapters include: (1) "Thinking about Being a Mathematics Teacher" (Thomas J. Cooney); (2) "Developing a Topic across the Curriculum" (Thomas J. Cooney); (3) "Designing Teaching: The Pythagorean Theorem" (Erich Ch. Wittman); (4) "Analyzing Subject Matter: Fundamental Ideas of Combinatorics" (Georg Schrage); (5) "Modeling with Functions" (John Dossey); and (6) "Posing Mathematically: A Novelette" (Stephen I. Brown). (ASK)

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